

LITTLE COLORADO RIVER BASIN

09400700 SWITZER CANYON TRIBUTARY AT FLAGSTAFF, AZ

LOCATION.--Lat 35°12'03", long 111°36'46", in NE¹/₄SE¹/₄ sec.14, T.21 N., R.7 E., Coconino County, Hydrologic Unit 15020015, at gravel road 500 ft upstream from Interstate 40, and ¹/₄ mi downstream from U.S. Highway 66 in Flagstaff.

DRAINAGE AREA.--7.02 mi², of which 2.50 mi² is noncontributing.

Annual peak discharges

Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes	Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes
1968	08-02-68	262	C	1975	07-16-75	65	C
1969	09-12-69	70	C	1976	02-09-76	45	C
1970	09-05-70	178	C	1977	08-09-77	47	C
1971	08-03-71	42	C	1978	07-15-78	76	C
1972	12-28-71	15	C	1979	08-12-79	103	C
1973	07-16-73	73	C	1980	02-19-80	84	C
1974	08-06-74	100	C				

Magnitude and probability of instantaneous peak flow based on period of record 1968-80

Discharge, in ft ³ /s, for indicated recurrence interval in years, and exceedance probability, in percent					
2 50%	5 20%	10 10%	25 4%	50† 2%	100† 1%
75.2	124	163	221	271	326
Weighted skew	(logs) =	0.28			
Mean	(logs) =	1.89			
Standard dev.	(logs) =	0.25			

† Reliability of values in column is uncertain, and potential errors are large.

Basin characteristics

Main channel slope (ft/mi)	Stream length (mi)	Mean basin elevation (ft)	Forested area (percent)	Soil index	Mean annual precipitation (in)	Rainfall intensity, 24-hour	
						2-year (in)	50-year (in)
267	4.1	6,950	78.0	3.0	20.0	2.0	4.0

